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# Guide to Use of Index

**A**N INDEX always represents a compromise between the indexer's desire to arrange information in neat parcels and the reader's urgent wish to find what he wants quickly under the term which comes first to his mind. In this index, we have attempted to consider the reader's desires first without sacrificing reasonable economy and bulk.

It is hoped that users will read this introduction carefully since it explains the way in which the index has been arranged, and an understanding of this arrangement will add greatly to the ease of usage.

## PART I. PRINCIPLES

The author and subject index have been combined in one alphabet. The subject index resembles that of *Chemical Abstracts*. The phrases modifying the subject headings have been made as short as possible—in each case only the major aspect of the paper in relation to the specific subject heading is given. For example, a paper entitled "Bone and Tissue Phosphatase in Experimental Scurvy" would be indexed under BONE with the phrase, phosphatase in scurvy; but with no mention in this place that rib was the specific bone studied, and that tissue such as muscle were also used. Entries would be made also under RIB and MUSCLE as well as under SCURVY and PHOSPHATASE.

In most cases the specific not the general subject heading has been chosen for the index. When a general subject heading has been used, the material listed under it is of so general a nature as to preclude the use of a specific heading. The user wishing all material on a given broad subject, such as antihistaminics, should look in the list of subject headings in Part II for the names of antihistaminic substances and then look in the index under each of the subject headings given.

Wherever practical the page number used refers to the exact page in the article on which the information is to be found; or when a given piece of information is mentioned more than once, the *first* page on which it is mentioned. Where it was not practical to do this, the reference is to the first page of the paper.

Many of the subject headings are followed by a definitive word or phrase such as PROTEIN (DIETARY) or SODIUM (TISSUE METABOLISM). In other cases a preposition or phrase which can be added to the modifying phrase under the subject heading has been used such as CAT (studies of — in); with this phrase, the modification *adrenalectomy* would read *studies of adrenalectomy in cat*.

For every paper the following items studied or described by the investigators were indexed:

- |                                       |   |
|---------------------------------------|---|
| 1) Organ or anatomical system         | 4) Special tests, measurements, and apparatus |
| 2) Physiological states and functions | 5) Chemical substances or compounds           |
| 3) Pathological condition             | 6) Species of animals                         |

1) **Organ or Anatomical System.** Wherever possible, the anatomical entries appear under the name of the organ or system, not under the adjective referring to that organ or system—e.g. *stomach* rather than *gastric*; *liver*, not *hepatic*. This rule has been modified, however, to take care of usage; we normally speak and write of *cardiac output*, not *heart output*. In cases such as the latter, if the bulk of material was small enough, the papers have been indexed in both places, i.e. under CARDIAC OUTPUT and under HEART; whenever the bulk of material made such double entry impractical, cross references are given.



Large groups of entries under an organ have been broken into small groups for ease of searching. Where a paper seemed to fit equally well into two of the small groups, an entry has been made in each group. This does not mean, however, that all entries under HEART METABOLISM deal only with metabolism or, conversely, that none of the other papers under HEART—have anything to do with metabolism. The user should bear in mind that these groupings are relative and are primarily to aid searching. For a definitive search of *all* material on *metabolism of the heart*, all of the entries under HEART—must be scanned.

2) **Physiological States and Functions.** We have followed common usage in choosing subject headings in this category regardless of the merits of less popular synonyms—e.g. *anoxia* not hypoxia. The less commonly used terms have been included with a *see* reference to the more popular terms. In cases where the bulk of material was too large to duplicate under both the anatomical and the physiological heading, the anatomical heading has been given preference.

3) **Pathological Condition.** The same policy as in (2) above has been used with names of diseases and pathological conditions.

4) **Special Tests, Measurements and Apparatus.** New apparatus, tests and methods of determination have been indexed under the thing measured, and/or under the name of the apparatus or test.

5) **Chemical Substances or Compounds.** The adequate indexing of pharmacologically active compounds is one of the most difficult problems in an index such as this one. A compound may have a chemical name, one or more trade names, a name approved by the AMA Council on Pharmacy, a common name and a pharmaceutical house number such as F933 (the Forneau number for 2-Piperidylmethyl), 11,4-Benzodioxan. An author may use one or more of these names in a paper, a user of the index may know only one of them. We have attempted to list the references to a drug under the most commonly used term, judging in part from the use of such terms in this journal. In addition we have provided a cross-reference pattern from the other names. Users are referred to the index to Vol. I, Part II, of *Excerpta Medica* for a more detailed list of synonyms of currently used drugs.

In regard to the chemical names we have used the names preferred by *Chemical Abstracts*, but have arranged them in direct rather than in inverted order. *Chemical Abstracts* uses PYRIDINE, 2-[(DIMETHYLAMINOETHYL)-2-THENYLAMINO] as an entry; in this index that compound would appear as 2-[(2-DIMETHYLAMINOETHYL)-2-THENYLAMINO], PYRIDINE and would be alphabetized under DI. Substituted compounds of the same parent chemical structure with similar pharmacological properties have been grouped under the name of the parent compound to save duplication of entries, e.g. all androstanediols such as  $3\alpha$ ,  $17\beta$ , acetate-3 *Androstanediol*, are entered under ANDROSTANEDIOLS. If an author has used a chemical name other than the preferred one, that name has also been included in the index with the necessary cross reference.

As with the anatomical headings, many large groups of entries have been broken into smaller groups for convenience in searching; e.g. PROTEIN (DIETARY); PROTEIN (AS TISSUE CONSTITUENT); PROTEIN METABOLISM. The entries in these small groups are not mutually exclusive, and if a complete search for protein metabolism is needed all of the groups must be scanned.

6) **Species of Animal.** Every article has been indexed under the experimental animals used, but no attempt has been made to distinguish between strains or between young and adult animals. (Where age is an important factor the article has been included under the subject heading AGE.)

In the case of experimental work on human beings all papers have been listed under MAN. All contributions on women have also been listed under WOMAN.

The modifications used under animal names have been shortened as much as possible. For example, all papers on adrenalectomy in cats have been grouped together; as have all papers of studies on effects of epinephrine in cats. These references to the animal used have been included for the convenience of the user who is interested in the characteristics of a particular species of animal.

## PART II. LIST OF SUBJECT HEADINGS

The problem of *see also* references is a major one in the preparation of any subject index. *Quarterly Cumulative Index Medicus*, *Chemical Abstracts* and *Biological Abstracts* use many *see also* references; until recently, *Current List* solved the problem by not using any. For a complete pattern of *see also* references under a heading such as VITAMIN B-COMPLEX, the reader should be referred to each member of the complex used as a heading, e.g. THIAMIN, RIBOFLAVIN; each disease name under which the effects of either a lack of or the presence of a member of the vitamin B-complex is indexed, e.g. HYPERTHYROIDISM, BERI-BERI; each organ or tissue affected, e.g. NERVE; each physiological state or reaction, e.g. CHRONAXIE, and so on. Moreover, each subject heading referred to should also lead to all other subject headings in the original list and back to the vitamin B-complex. The magnitude of such a pattern is such that it can seldom be adhered to consistently throughout an entire index. Such a pattern would also require an enormous amount of space.

Indexers have long questioned how thoroughly *see also* references are used. At best they probably serve only as a reminder to the user of related subject headings under which he might find items of interest. Theoretically the problem would be solved by gathering together all entries under all pertinent specific and general headings. If this procedure were used, it should be followed consistently or the user would be misled and would miss many pertinent entries. There are a number of reasons against its use. The first, of course, is that the large bulk of material which would result would not only make the index exceedingly bulky and expensive, but would also increase the number of entries under each subject heading and reduce the ease with which the index could be scanned. In the second place, it is doubtful if any indexer could manage to list *all* items under *all* related headings so that *all* users could obtain *all* the information needed under *one* subject heading.

In this index, we have attempted to solve the problem of giving the user the information he needs about related subject headings by including lists of subject headings in the introduction. These subject headings have been divided primarily into five of the categories used for indexing, i.e. ORGAN OR ANATOMICAL SYSTEM; PHYSIOLOGICAL STATES AND FUNCTIONS; PATHOLOGICAL CONDITIONS; CHEMICAL SUBSTANCE AND COMPOUNDS; and SPECIES OF ANIMAL STUDIED. Each group has been broken into smaller groups, the members of each sub-group having a single axis of categorization in common. The axis used, however, shifts from sub-group to sub-group, e.g. all body fluids are grouped together on the physical basis of being fluid; all nerves are grouped together on the anatomical basis of being nerves; but all members of the digestive tract are grouped together on the basis of function. The headings given to the various sub-groups should be labeled "subject headings referable to" the digestive tract, to the body fluids, etc., as some terms not strictly following the axis for categorization have been included, e.g. CHLORIDE SPACE and SODIUM SPACE have been placed in the list with INTRACELLULAR FLUID and EXTRACELLULAR FLUID. No attempt has been made to arrive at groups which are completely logical—usability not logic has been the guiding principle. Subject headings which did not group conveniently on any one axis used have been allowed to stand alone near a list of related subject headings.

Not all the subject headings have been used. The lists have been kept to a

minimum to permit ease of scanning. Many have been left out, especially in the list of chemical subject headings. Where several subject headings begin with the same word or syllable, only the common part of the heading has been used, e.g. Digit—for DIGITALIS, DIGITOXIN etc. This will provide the user with a clue to the part of the alphabet in which he should look for material on the subject.

It is hoped that the user will make extensive use of these lists when searching for anything except a very specific subject. For example, if he wishes all material on antihistaminics he can find under the major category of CHEMICAL SUBSTANCES the list of antihistaminics indexed; namely, ANTISTINE, BENADRYL, DECAPRYN, HISTADYL, PYRIBENZAMINE and THEPHORIN. He then can look in the index for those in which he is interested. He can also find under PATHOLOGICAL CONDITIONS those pathological conditions in which antihistaminics might have been used, e.g. ANAPHYLACTIC SHOCK, ALLERGIC RHINITIS, HAY FEVER etc.

# SUBJECT HEADINGS REFERABLE TO ANATOMICAL TERMS

SYSTEMS <sup>1</sup>	PARTS OF BODY		
Autonomic nervous	Abdomen	Fur	Pleura
Cardiovascular	Arm	Hair	Skin
Central nervous	Body—	Hands	Surface area
Olfactory	Chest wall	Head	Tail
Parasympathetic nervous	Extracellular space	Knee joint	Teeth
Reproductive	Eyelids	Leg	Thorax
Reticulo-endothelial	Feathers	Limbs	Toe
Sympathetic nervous	Finger—	Mesentery	Viscera
Sympathetico-adrenal	Foot	Pelvis	Wrist
Vago-insulin	Forehead	Pericard—	
Vasomotor		Periton—	Carcass

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FLUIDS	BLOOD, FORMED ELEMENTS		
Amniotic—	Exudates	Plasma	Eosinophiles
Arterial	Gastric—	Prostatic—	Erythrocytes
Bile	Hydatic cyst—	Saliva	Granulocytes
Blood—	Intestinal—	Seminal—	Leukocytes
Body—	Intracellular—	Serum—	Lymphocytes
Cerebrospinal—	Lymph	Sodium space	Neutrophiles
Chloride space	Milk	Spermatocoele—	Platelets
Chyle	Pancreatic—	Sweat	Reticulocytes
Colostrum	Pericardial—	Synovial—	Thrombocytes
Extracellular—	Peritoneal—	Venous	

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TISSUES, CELLS	RESPIRATORY SYSTEM	GLANDS <sup>1</sup>	ENDOCRINE GLANDS
Brown adipose	Bronchi	Brunner's	Adrenal—
Cell culture	Lungs	Cowper's	Anterior pituitary
Cells	Nasal pharynx	Harderian	Islets of langerhans
Epithelium	Nose	Lacrimal	Ovaries
Erythroid	Pulmonary	Mammary	Parathyroid
Melanophores	Respiratory tract	Salivary	Pituitary—
Mitochondria	Trachea	Submaxillary	Posterior pituitary
Myeloid		Sweat	Testes
Tissue			Thymus
			Thyroid

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CARDIOVASCULAR SYSTEM	ARTERIES <sup>1</sup>		VEINS <sup>1</sup>
Arteries	Aorta	Femoral	Coronary
Blood vessels	Bronchial	Hepatic	Inferior vena cava
Capillaries	Carotid	Pulmonary	Jugular
Cardiac—	Common iliac	Renal	Muscularis
Cardiovascular	Coronary	Splenic	Portal
Coronary—	Digital	Superior mesenteric	Postcaval
Heart—	Ductus arteriosus	Umbilical	Pulmonary
Luminal vessels			
Thebesian vessels			
Vas—			
Veins			

<sup>1</sup> Look under names of system, gland, artery or vein, i.e. cardiovascular, Brunner's, aorta and coronary respectively.

LYMPHATIC SYSTEM	SUPPORTING STRUCTURES	REPRODUCTIVE SYSTEM	
Lymph	Bone	Amnion	Reproductive system
Thoracic duct	Cartilage	Corpus luteum	Semen
	Epiphyseal cartilage	Deciduomata	Seminal vesicles
	Femur	Epididymus	Sexual skin
	Ligamentum nuchae	Fallopian tubes	Spermatozoa
	Skull bones	Ovaries	Testes
	Synovial membrane	Oviduct	Umbilical cord
	Tendon	Ovum	Uterus
	Tibia	Placenta	Vagina
		Prostate	

URINARY TRACT	MUSCLES <sup>2</sup>		EYE
Bladder	Anterior tibial	Lumbar	Aqueous humor
Glomerul—	Ciliary	Papillary	Eye
Kidney—	Diaphragm	Quadriceps	Iris
Neph—	Extraocular	Rectus abdominis	Lens
Renal—	Gastrocnemius—	Respiratory	Nictitating membrane
Ureter	Interosseous	Retractor penis	Pupil
Vesical trigone	Intestinal	Sartorius	Retina
	Latissimus dorsi	Semitendinosus	
	Locomotor	Tibialis anticus	

ALIMENTARY TRACT		NERVES <sup>2</sup>	
Alimentary tract	Gastric—	Aortic	Plantar
Anus	Hepatic—	Cardiac	Popliteal
Appendix	Ileum	Chorda tympani	Sciatic
Bile duct	Intestine—	Celiac	Splanchnic
Cecum	Jejunum	Femoral	Splenic
Cloaca	Liver—	Glossopharyngeal	Third cranial
Colon	Muscularis mucosae	Hypogastric	Tibial
Crop-sac	Pancreas	Hypoglossal	Trigeminal
Duodenum	Pylorus	Lingual	Vagus
Esophagus	Rectum	Motor	Vestibular
Feces	Spleen	Olfactory	
Flatus	Stomach—	Optic	Meissner's plexus
Gall bladder		Pelvic	
		Phrenic	

NERVOUS SYSTEM			
Cardiac ganglion	Axons	Neurons	Adrenotropic receptors
Ganglion—	Endoneural spaces	White matter	Aortic body
Sensory ganglia	Motor nerves		Carotid—
Sympathetic n. s.—	Nerve—		Chemoreceptors
	Neuromuscular junction		Proprioceptors

CENTRAL NERVOUS SYSTEM			
Blood-cerebrospinal fluid barrier	Cerebrum	Hemato-encephalic barrier (blood-brain)	Occipito-parieto-temporal lobes
Brain stem	Corpora quadrigemina	Hippocampus	Pallium
Brain	Corpus callosum	Hypothalamus	Parietal lobes
Caudate nucleus	Cortic—	Internal capsule	Pons
Central n. s.	Forebrain	Medulla oblongata	Spinal cord
Cerebellum	Fourth ventricle	Midbrain	Telencephalon
Cerebral—	Frontal lobes	Neostriatum	Thalamus
	Geniculate bodies, medial		

<sup>2</sup> Look under name of muscle, nerve, i.e. anterior tibial, aortic.

# AREAS, CENTERS, TRACTS, PATHWAYS OF C.N.S.

Acoustic area	Optic tract	Red nucleus	Suppressor areas
Anterior olfactory nucleus	Paraventricular nuclei	Respiratory center	Vasomotor centers
Auditory nervous pathways	Pyramidal tracts	Somatic centers	Visual pathway
Extrapyramidal tracts	Pyriform-amygdaloid areas	Spinal cardiovascular centers	Vomiting centers
Motor nuclei			

## SUBJECT HEADINGS REFERABLE TO PHYSIOLOGICAL STATES OR CONDITIONS<sup>3</sup>

CARDIOVASCULAR	REPRODUCTION		
Arterial—	Anestrus	Labor (Parturition)	Parturition
Capillary	Birth	Lactation	Pregnancy
Circulation	Coitus	Maternal behavior	Pseudopregnancy
Coronary resistance	Ejaculation	Menarche	Puberty
Erythropoiesis	Estrous cycle	Menstruation	Reproduction
Peripheral resistance	Fertility	Mitosis	Sex
(Vascular)	Fertilization	Ovulation	Weaning
Pulse	Implantation		
Vascular—			
Vaso—			
Venous—			

NEUROMUSCULAR		ALIMENTARY	
Chronaxie	Neuromuscular—	Absorption	Hunger
Contract—	Re-innervation	Appetite	Intestinal—
Deafferentation	Recruitment	Chloresis	Pancreas
Extensor tone	Refractory period	Coprophagy	Peristalsis
Facilitation	Stretch	Defecation	Renal
Incoordination	Summation	Deglutition	Salivation
Inhibition	Suppression	Digestion	Thirst
Irritability	Transmission—	Emesis	
Innervation	Treppe	Gastric—	RENAL
Nerve—		Hepatic—	Urination

METABOLISM	VISION	SPECIAL SENSES	SKIN, HAIR, FEATHERS
Basal metabolic rate	Accommodation	Hearing	Molting
Deamination	Contrast discrimination	Smell	Palmar skin resistance
Detoxification	Dark adaptation	Taste	Perspiration
Energy metabolism	Light adaptation	Touch	Sweating
Gluco—	Perception, form		Temperature—
Glyco—	Peripheral motion acuity		
Metabolism	Reading		
Oxygen consumption	Vision		
Respira—			
Specific dynamic action (of)	Protanope		
Tolerance	Trichromat		

<sup>3</sup> See also under names of organs.

POSTURE, MOTION	CNS	CONDITION, ADAPTIVE STATE	
Energy transfer (mechanical)	Bulbar excitability	Activity	Acclimatization
Locomotion	Consciousness	Adaptation	Accommodation
Posture	Feeling tone	Development	Alarm reaction
Standing	Learning	Excitability	Diurnal variation
Structural orientation	Memory	Growth	Endurance
Vestibular function	Emotion	Inactivity	Healing
Walking	Excitement	Motility	Heat exchange
RESPIRATORY	Fear	Death	Hibernation
Cough	Rest	Parabiosis	Homostasis
Intrathoracic pressure	Sleep	Aged	Reaction time
Minute volume		Newborn	Strain
Panting		Longevity	Tachyphylaxis
Pulmonary			Temperature——
Respira——			Weaning
Resuscitation			Work
Sighing			
Yawning			

#### REFLEXES<sup>4</sup>

Bainbridge	Geotropic	Pharyngeal	Spinal
Buffer	Hering-Breuer	Plantar	Stretch
Carotid body	Inhibitory	Proprioceptive	Tendon
Carotid-mandibular	Joint	Pupillary constrictor	Thoracic pressure
Chemoreflex	Knee jerk	Reflex	Toe spreading
Conditioned	Labyrinthine	Respiratory	Vagal
Depressor	Linguo-maxillary	Righting	Vasomotor
Flexion	Mandibular	Salivation	Vestibular
Gasping	Myenteric		

#### SUBJECT HEADINGS REFERABLE TO PATHOLOGICAL STATES OR CONDITIONS<sup>5</sup>

CNS	THYROID	EYE	BLOOD, BLOOD CELLS
Analgesia	Goiter	Cataract	Agranulocytosis
Cephalogryic——	Hyperthyroidism	Exophthalmos	Anemia
Coma	Hypothyroidism	Hippus	Hemophilia
Concussion		Hypermetropia	Leukemia
Convulsions		Lacrimation	Leukocytosis
Epilepsy		Night blindness	Leukopenia
Narcosis		Nystagmus	Polycythemia
Schizophrenia		Papilledema	Thrombocytopenia
Wallerian degeneration			Thrombopenia
Motion sickness			
Nausea			
Diencephalic lesions			
Mesencephalic lesions			

#### BLOOD CONSTITUENTS<sup>6</sup>

BLOOD CONSTITUENTS <sup>6</sup>	RESPIRATORY SYSTEM
Acapnia	Anoxia
Acidosis	Apneusis
Alkalosis	Asphyxia
Anoxemia	Hyperpnea
Hypercalcemia	Hyperventilation
Hypercapnia	Respiratory failure
Hypocapnia	
Hypoprote thrombinemia	

<sup>4</sup> Look under name of reflex, i.e. Bainbridge.

<sup>5</sup> See also under name of organs.    <sup>6</sup> See also under name of constituents.

## CARDIOVASCULAR SYSTEM

Aeroembolism  
Circulatory failure  
Congestion  
Hemorrhage  
Hemostasis  
Hypertension  
Hypotension

Ischemia  
Occlusion  
Orthostatic insufficiency  
Plethora  
Syncope

Bradycardia  
Cor pulmonale  
Interauricular septal defect  
Mitral stenosis  
Tachycardia

## ALIMENTARY TRACT

Anorexia  
Cirrhosis  
Distention  
Gastric acidity, low  
Jaundice  
Liver, fatty  
Ulcers

## MUSCLE-NERVE

Clonus  
Hypertrophy  
Muscular dystrophy  
Myopathy  
Myotonia

## HAIR

Achromotrichia  
Alopecia

## BODY TEMPERATURE

Fever  
Heat exhaustion  
Hyperthermia  
Hypothermia  
Shivering

## URINE FORMATION

Anuria  
Diuresis  
Oliguria  
Polyuria

Paralysis  
Tetany

Burns  
Sunburn

## ALLERGIC

Allergy  
Anaphylaxis  
Hay fever  
Histamine shock  
Rhinitis, allergic

## NEOPLASMS

Carcinoma  
Lymphosarcoma  
Neoplastic disease  
Tumors

## DIETARY, METABOLIC<sup>7</sup>

Alcoholism  
Arthritis  
Diabetes  
Hyperglycemia  
Hypervitaminosis  
Hypoglycemia  
Inanition  
Ketosis  
Obesity  
Rickets  
Scurvy

## CAUSED BY INVADERS

Arthritis  
Coccidiosis  
Coryza  
Diphtheria  
Hepatitis  
Malaria  
Pancreatitis  
Tuberculosis

## MISCELLANEOUS

Anxiety  
Cryptorchidism  
Edema  
Erythema  
Fear

Frost-bite  
Gangrene  
Hypericium  
Inflammation  
Insomnia

Lead poisoning  
Lithiasis  
Lymphoid necrosis  
Osteoporosis  
Pain

Radiation syndrome  
Shock——  
Trench foot

## EXPERIMENTAL PREPARATIONS

Biliary fistula  
Decapitated head  
Decerebrate  
Eck fistula  
Fistula  
Head-heart  
Heidenhain pouch  
Langendorff heart  
Medullary animal

## OPERATIVE PROCEDURES

Adrenalectomy  
Castration  
Denervation  
Evisceration  
Frontal lobectomy  
Hemidecortication  
Hepatectomy  
Hypophysectomy  
Laparotomy

Nephrectomy  
Nephro-omentopexy  
Ovariectomy  
Pancreatectomy  
Parathyroidectomy  
Pneumothorax  
Spinal cord, transection  
Splanchnicotomy

Splenectomy  
Sympathectomy  
Thymectomy  
Thyroidectomy  
Thyroparathyroidectomy  
Vagotomy

<sup>7</sup> For deficiency diseases, see also under name of substance, e.g. thiamin deficiency.



# SUBJECT HEADINGS REFERABLE TO CHEMICAL SUBSTANCES

## ELEMENTS AND COMPOUNDS

### *Cations*

Aluminum	Cobalt	Molybdenum	Uranium
Ammonia	Copper	Phosphorus	Vanadium
Arsenic	Deuterium	Potassium—	Zinc
Barium	Gold—	Rubidium	
Beryllium	Iodine—	Sodium—	Colloid
Boron	Iron	Thorium	Crystalloid
Calcium	Lithium	Tin	Electrolytes
Carbon	Magnesium	Titanium	
Cesium	Manganese		
Chrom—	Mercury		

### *Gases*

Argon  
Carbon dioxide  
Carbon monoxide  
Helium  
Krypton (radioactive)  
Nitrogen  
Nitrous oxide  
Oxygen  
Radon

### *Anions*

Arsenate  
Arsenite  
Azide  
Bicarbonate  
Bromide  
Chloride

Cyanide  
Ferrocyanides  
Fluorides  
Nitrate  
Oxalate  
Phosphate

Sulfates  
Tetrathionate  
Thiocyanate  
Thiocyanide  
Thiols  
Thiosulfate

## FOOD AND TISSUE CONSTITUENTS

### *Carbohydrates*

Arabinose	Maltose
Carbohydrate	Mannose
Cyclohexanol	Pectin
Fructose	Pentose
Galactose	Raffinose
Glucose	SIII
Glycogen	Sorbose
Inulin	Starch
Heparin	Sucrose
Lactose	Sweetose
	Xylose

### *Lipids*

Butyrate	Triacetin
Capric acid	Tributyrin
Caproate	Tricaproin
Caprylic acid	Tricaprylin
Cholesterol	
Fat—	Cardiolipin
Fatty acids	Cephalin
Glycerol	Lecithin
Lipids	Lysolecithins
Oleic acid	Phospholipids
Steroids	Sphingomyelin

### *Proteins*

Actomyosin	Ferric beta-globulinate	Globulin	Myosin
Albumin	Ferritin	Glutathione	Ovalbumin
Arsanilac-azo-ovalbumin	Fibrin	Hemoglobin	Oxyhemoglobin
Carboxyhemoglobin	Fibrinogen	Lactalbumin	Oxypolygelatin
Casein	Gastric mucin	Methemoglobin	Peptones
Chromatin	Gelatin	Mucoproteins	Protein—
Collagen	Globin	Myoglobin	

### *Amino Acids*

Alanine	Cystine	Histidine	Threonine
Allothreonine	Diiodotyrosine	Isoleucine	Tryptophane
Amino acids	Dopa	Leucine	Tyrosine
Arginine	Glutamic acid	Lysine	Valine
Aspartic acid	Glutaric acid	Methionine	
Cysteine	Glycine	Phenylalanine	

### *Metabolites*

Acetaldehyde	Fumarate	$\beta$ -Hydroxybutyric acid	Phosphoglyceric acid
Acetoacetate	Glyceraldehyde	Lactate	Phosphopyruvic acid
Acetone—	Guanidoacetic acid	Maltate	Phosphorylcholine
Citrate	Hexose phosphates	Maleic acid	Pyruvate
Creatin—	Hippuric acid	Malonate	Succinate
Dehydroacetate	Histamine	N-Methylnicotinamide	Trigonelline
Disodium glycerol phosphate		Oxalacetate	Urea—
			Uric acid

### *Energy-Rich Phosphates*

Acyl phosphate  
Adenosine—  
Phosphocreatine

### *Nucleotides, Purines*

Adenine  
Adenosine  
Adenylic acid  
Cytosine

Guanine  
Inosinic acid  
Nucleic acid  
Pentnucleotide

Thymine  
Uracil  
Uric acid  
Xanthosine

### *Vitamins*

Vitamin A—  
Carotene

Niacin  
Nicotinamide  
Pantothenic acid  
Pyridoxine  
Riboflavin  
Thiamin

Vitamin P flavonoids

Animal protein factor  
Factor W  
Filtrate factor  
Lipotropic factors  
Substance P

Vitamin B<sub>12</sub>  
Folic acid  
Pteroyldiglutamyl  
glutamic acid

Vitamins

Vitamins D

Cod liver oil  
Wheat germ oil

Vitamin B-complex  
Aminobenzoic acids  
Biotin  
Choline  
Inositol

Vitamin E—  
Tocopherols

Ascorbic acid  
Dehydroascorbic acid  
Dehydroglucoascorbic  
acid  
Dehydroisoascorbic acid  
Glucoascorbic acid  
D-Glucoascorbic acid  
Isoascorbic acid

Vitamin K—  
Menadione

### *Miscellaneous*

Necrosin  
Pyrexin  
Leukotaxine  
  
Thromboplastin

Prothrombin  
  
Heme  
  
Malononitrile

Urogastrone  
Uropancreatone  
  
VDM  
VEM

Angiotonin  
Bradykinin  
Enkephalin  
Hypertensinogen  
Renin

---

## ENZYMES AND INHIBITORS

### *Enzymes*

Amylase  
Amylopsin  
Arginase  
Carbonic anhydrase  
Catalase  
Choline oxidase  
Cholinesterase  
Chymotrypsin  
Coccarboxylase  
Cytochrome—  
Dehydrogenase

Diastase  
Enzymes  
Esterase  
Fibrinogenase  
Fibrinolysin  
Glutaminase  
Hemolysins  
Hexokinase  
Histaminase  
Hyaluronidase  
Hypertensinase

Invertase  
Lipase  
Lysins  
Papain  
Pepsin  
Peptidase  
Phosphatases  
Phosphorylase  
Potato oxidase  
Rennin  
Respiratory enzymes

Secretinase  
Staphylokinase  
Succinic dehydrogenase  
Succinoxidase  
Thromboplastic enzyme  
Thrombin  
Transsulfurase  
Trypsin  
Urease  
Uropepsin

### *Anti-Cholinesterases*

Diisopropylfluoro-  
phosphate  
Hexaethyltetraphosphate  
Physostigmine  
Tetraethylpyrophosphate

### *Enzyme Inhibitors<sup>8</sup>*

Alloxan  
Alpha-naphthyl thiourea  
Azide  
Colchicine  
Cyanide

DDT  
Diphosgene  
Fluoride  
Fluoroacetate  
Iodoacetic acid

Nitrogen mustard  
Oxygen—  
Phlorhizin  
Xanthopterin

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<sup>8</sup> See also under oxygen consumption.

## HORMONES

<i>Androgens</i>	<i>Estrogens, etc.</i>	<i>Adrenal Gland</i>	
Androgens	Dienestrol	Adrenocortical hormones	11-Desoxy-17-hydroxy-
Androstadienols	Estr——	Corticosterone	corticosterone
Androstenediols	Benzestrol	Cortisone	Desoxycorticosterone
Androstenediones		11-Dehydro-	17-Ketosteroids
Androstanols	Pregnan——	corticosterone	
Androstenediones	Pregnen——		Epinephrine
Androstenediols	Progesterone		Nor-epinephrine
Androsterones			Sympathin
Etiocolanol——	Diethylstilbesterol		
Testosterone——	Stilbesterol		
	Steroids		
<i>Pituitary</i>		<i>Gastro-Intestinal</i>	<i>Other</i>
Adrenocorticotropin	Posterior pituitary	Cholecystokin	Parathyroid——
Adrenotropic factor-	Pituitrin	Enterocrinin	
Anterior pituitary	Pitressin	Enterogastrone	Diiodotyrosine
hormones	Pitocin	Gastrin	Diiodothyronine
Gonadotropins		Pancreozymin	Thyro——
Growth hormone	Mare serum hormone	SI (pancreozymin &	Thyroxin
Intermedin	Pituitary secretagogue	secretin)	
Lactogenic hormone		Secretin	Lipocaic
Thyrotropic hormone		<i>Neuro-</i>	Insulin
		Acetyl-beta-	
		methylcholine	
		Acetylcholine	

## DRUGS

<i>Hypnotics</i>	<i>CNS Depressants</i>	<i>Antiseptics</i>	<i>Anticonvulsants</i>
Chloral——	Acetylene	Alkyl resorcinols	Diphenyl hydantoin
Chlorobutanol	Alcohol	Aseptorform	Hydantoin
Paraldehyde	Anesthesia	Astringents	Mesantoin
<i>Analgesics</i>	Avertin	Chloramine-T	Methyl-phenyl-ethyl-
Acetanilide	Bromide	Cresols	hydantoin
Amidone	Chloraloseane	Eugenol	Trimethadione
Antipyrine	Chloroform	Formaldehyde	<i>Local Anesthetics</i>
	Cyclopropane	Formalin	Cocaine
Salicylaldoxime	Ether	Hexylresorcinol	Novocain
Salicylic acid	Nitrous oxide	Phenol	Procaine
	Urethane	Resorcinol	Tetracaine
<i>Barbiturates</i>			
Amytal	Evipal	Phenobarbital	Sodium N-hexylethyl bar-
Diallylbarbituric acid	Hexobarbital	Seconal	bituric acid
Ethyl-β-methylallylthio-	Ortal	Sodium barbital	Thiopental
barbituric acid	Pentobarbital	Sodium (1,3-dimethyl	V-12
		butyl) ethyl barbiturate	
<i>Cardiac Glycosides</i>	<i>Antibiotics</i>	<i>Bile Acids, Salts</i>	<i>Mercurials</i>
Digit——	Aureomycin	Bile——	Esidrone
Lanatosides	Neomycin	Chalagogues	Mapharsen
Ouabain	Penicillin	Choleretic agents	Meralluride
	Streptomycin	Deoxycholate	Merc——
		Sodium——	Mersalyl

*Antihistaminics*

Antistine  
Benadryl  
Decapryn  
Histadyl  
Pyribenzamine  
Thephorin

*Ergot Derivatives*

Dihydroergo——  
Ergo——  
Tyramine

*Atropine-like*

Syntropan  
Atropine  
Hyoscine  
Hyoscyamine

*Relaxants*

Myanesin  
  
2-Methyl naphthoquinone  
Nicotine  
Papaverine  
Tetraethylammonium  
ions  
Tetramethylammonium  
iodide

*Sympathomimetic]Drugs*

Amphetamine  
Cobefrin  
Dexedrine  
Ephedrine  
Epinine

Kephrin  
N-Methyl paredrine  
Neosynephrin  
Paredrine  
Priscoline

Privine  
Prostigmine  
Sympathomimetic  
amines  
Synephrin

*Sulfa Drugs*

Acetylsulfanilamide  
Neoprontosil  
Phthalylsulfathiazole  
Succinyl sulfathiazole  
Sulfa——  
Thiophene-2-sulfonamide

*CNS Stimulants<sup>9</sup>*

Amphetamine  
Caffeine  
Camphor  
Dexedrine

Metrazol  
Nikethamide  
Pentamethylene tetrazol  
Picrotoxin

Strychnine  
Theobromine  
Theophylline

*Curare*

Curare  
 $\beta$ -Erythroidine  
Tubocurarine

*Foods*

Beef heart  
Bitters  
Corn  
Corn syrup  
Eggs  
Garlic  
Liver  
Meat  
Oats  
Parsley  
Pork  
Protein  
Salt mixture  
Soybeans  
Tobacco

Sea water  
  
Butter  
Cod liver oil  
Corn oil  
Cottonseed oil  
Fat  
Lard  
Margarine  
Mineral oil  
Mustard oil  
Olive oil  
Wheat germ oil

*Diets, Dietary Procedures*

Cabbage——  
Calorie——  
Carbohydrate——  
Carrot  
Cholesterol——  
Diet  
Fat——  
Food consumption

High salts  
Ketogenic  
Overfeeding  
Paired feeding  
Potassium-low  
Self selection  
Sham feeding  
Single food choice

## MISCELLANEOUS

*Antigens, Vaccines*

Antigen N  
Toxins  
Typhoid——

*Dyes, Indicators, Pigments*

Carmine  
Dyes  
Evans blue  
Fluorescein  
Hypericin

Indicator yellow  
Indigo  
Methylene blue  
Niagara sky blue  
Phenol red

Phenolsulphonphthalein  
Trypan blue  
Vital red  
Leucopterin

*Radio-opaque*

Diodrast  
Iopax  
Lipiodol  
Neopax  
Skiodan

*Detergents, Soaps*

Calgon  
Saponin  
Soap  
Sodium lauryl sulfate  
Triton

*Absorbents*

Ion exchange resins  
Kaolin  
Norite  
Permutit Z

<sup>9</sup> See also under convulsions.

# SUBJECT HEADINGS REFERABLE TO SPECIES OF ANIMALS

## DOMESTIC, LABORATORY ANIMALS

Calf	Hamster
Cat	Horse
Cattle	Mouse
Dog	Ox
Donkey	Pig
Goat	Rat
Guinea pig	Sheep

## INFRA-HUMAN PRIMATES

Baboon——
Chimpanzee
Gibbon
Orang-utan

## MAN

Children
Infants
Newborn
Peruvian Indians
Man
Woman

## OTHER MAMMALS

Antelope	Deer
Armadillo	Eland
Bat	Ferret
Bear	Fox
Beaver	Ground squirrel
Boar	Indian blackbuck
Camel	

Kinkajou	Opossum
Lion	Peccary
Llama	Raccoon
Mink	Seal
Muskrat	Sloth
Ocelot	Squirrel
	Weasel

## BIRDS

Birds
Chick——
Dove
Duck
Pigeon
Swift
Turkey
Wren

## FISH, MOLLUSCS

Cambarus clarkii
Chub
Dogfish
Dolphin
Eel
Fish
Flounder

Goldfish	Shiner
Haddock	Squid
Limulus	Stingray
Parrot fish	Sturgeon
Salmon	Sucker
Sea bass	Toadfish
Shark	

## REPTILES, AMPHIBIA

Alligator	Snakes
Crocodile	Tadpole
Daboia	Toad
Frog	Tortoise
Lizard	Turtle
Necturus	Water moccasin
Newt	

## INSECTS, MICROORGANISMS, PARASITES

Ascaris suum	Lithospermum ruderae
Drosophila	Panulirus interruptus
Echinococcus granulosa	Phormia
Lactobacillus casei	Schilliroside
Lycopodium spores	
Girella nigricans	

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